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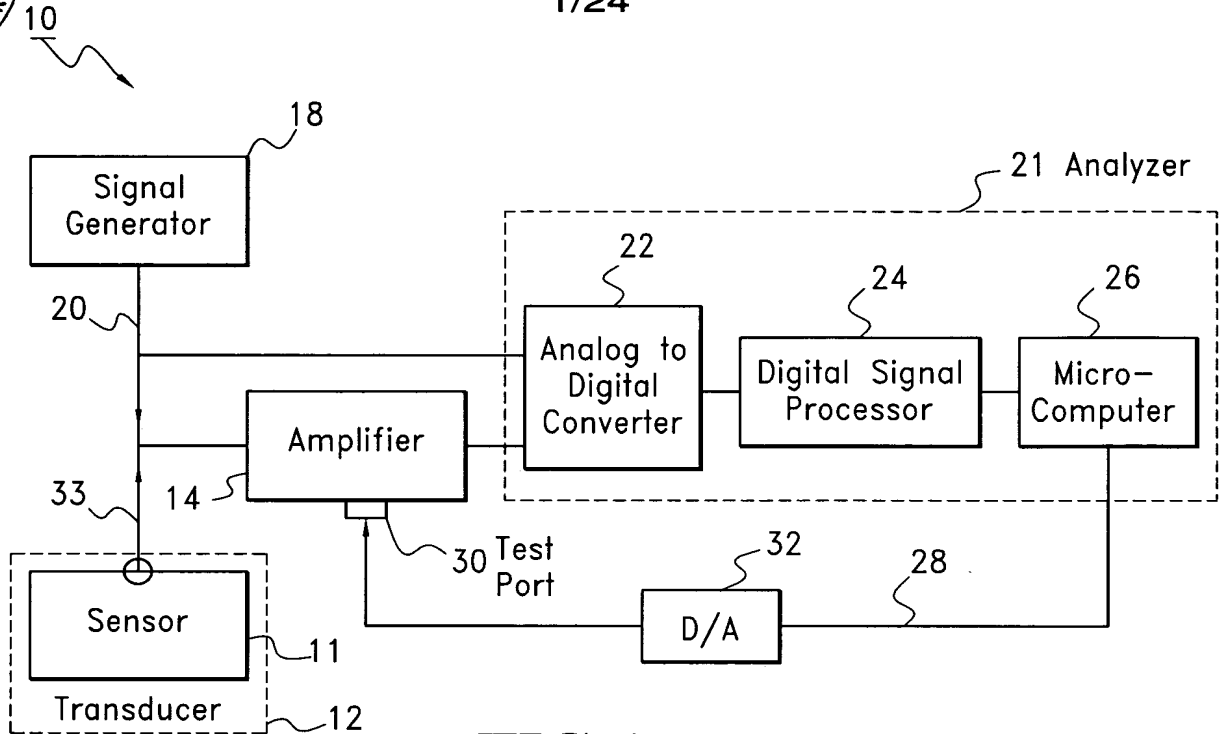


FIG. 1

The block diagram of the sensor self-test system.

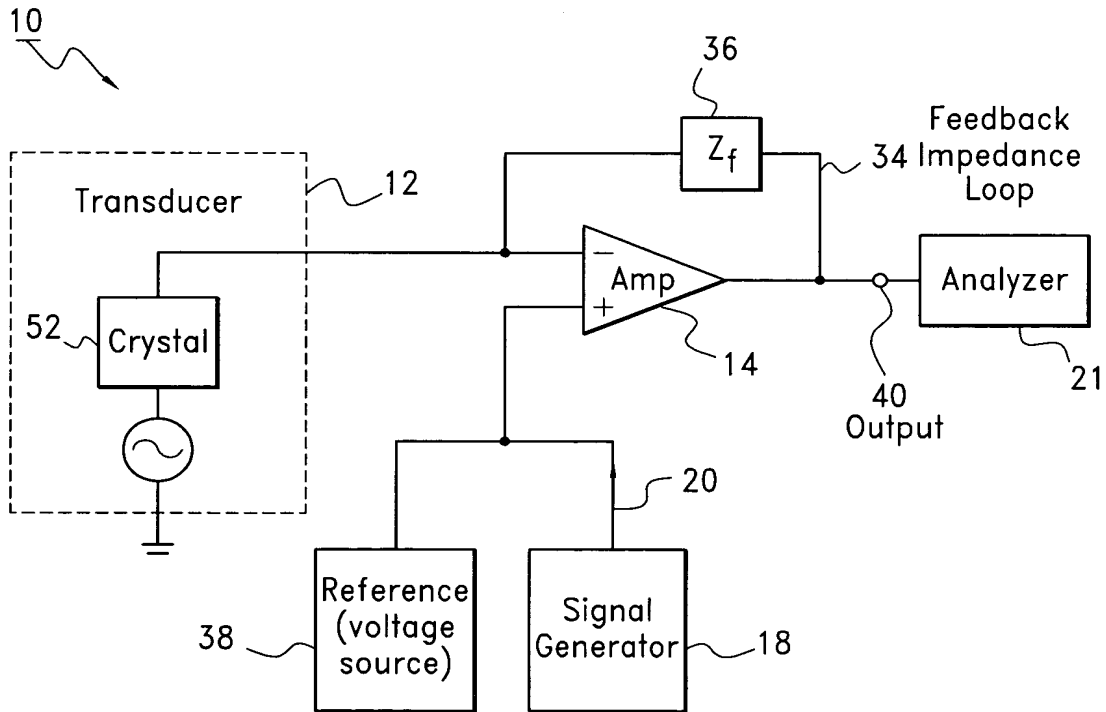
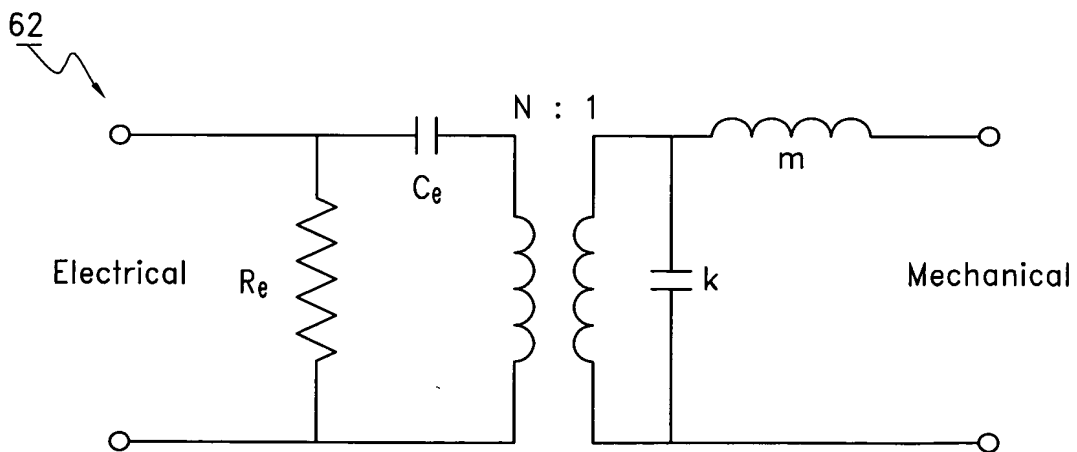
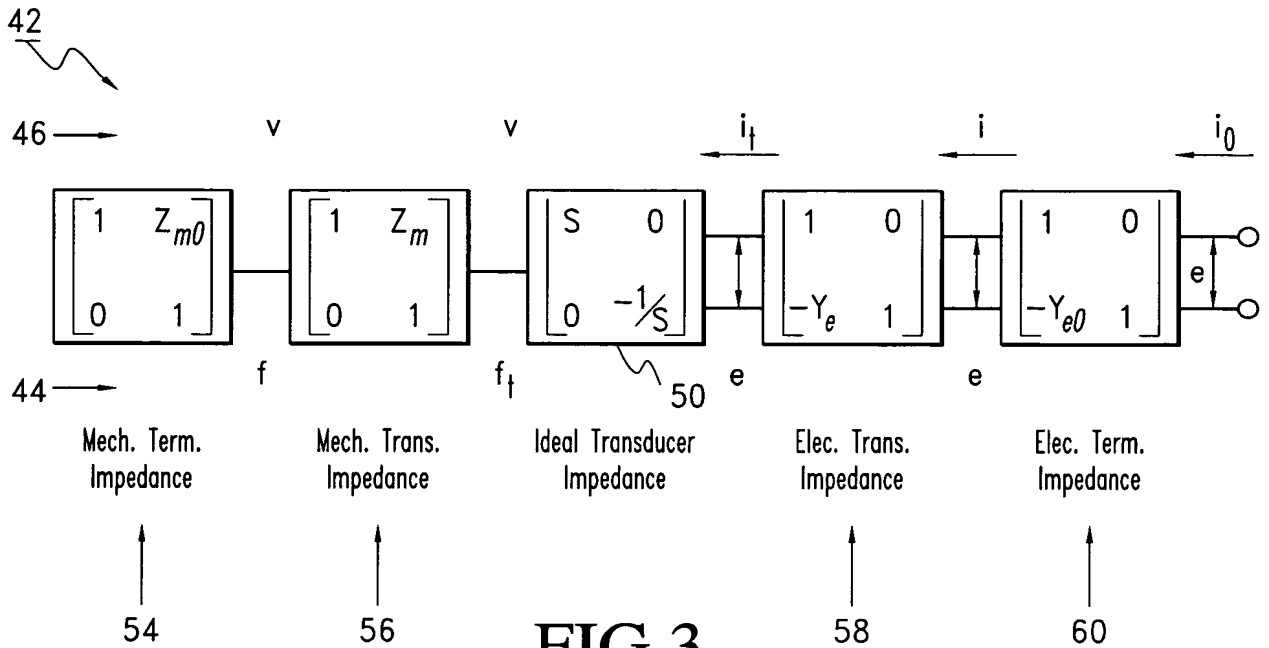


FIG. 2

Generic amplifier self-test configuration.

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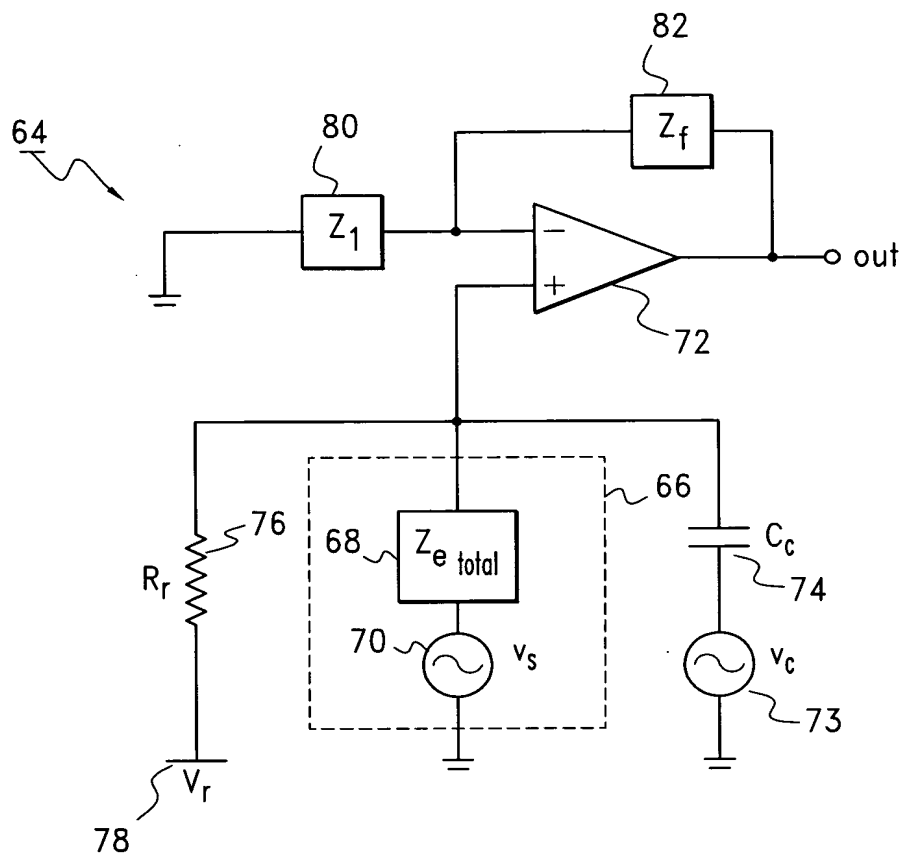


FIG.5

Three wire voltage mode self-test circuit.

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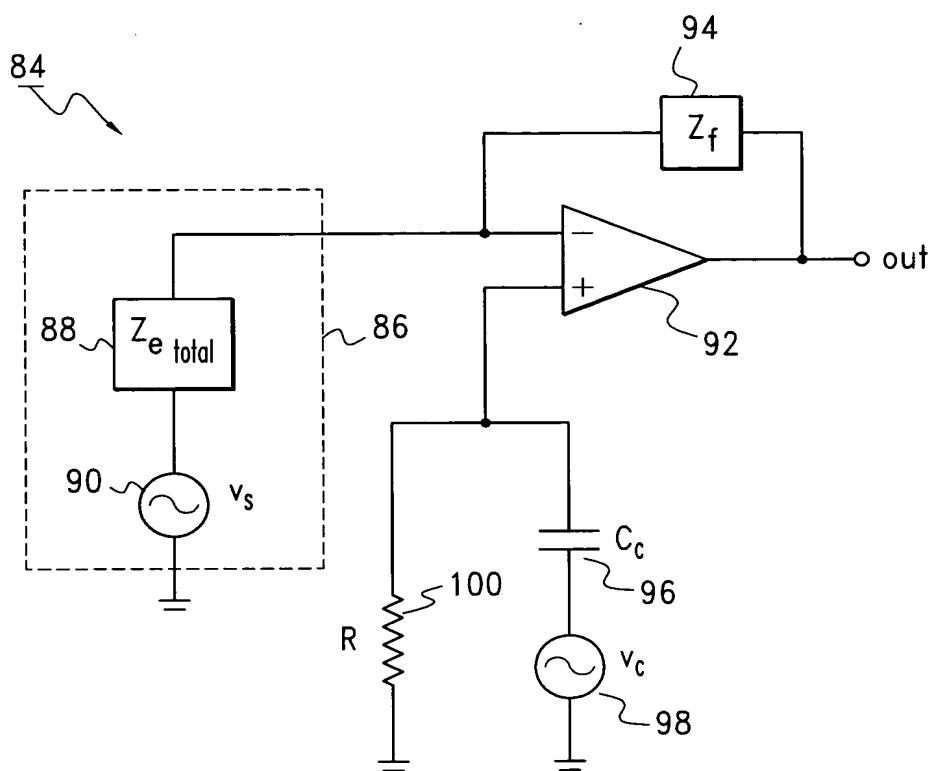


FIG.6

Three wire charge amplifier.

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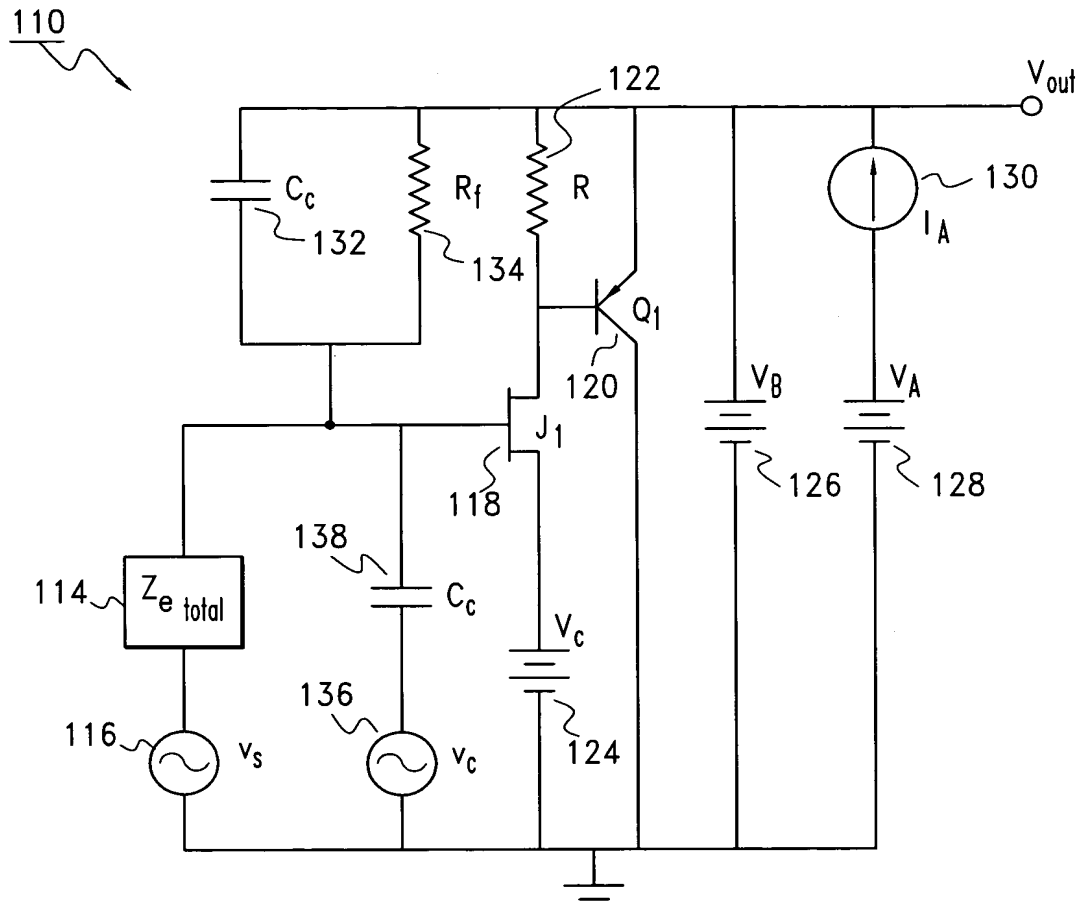


FIG.7

The two-wire charge mode preamplifier with self-test feature.

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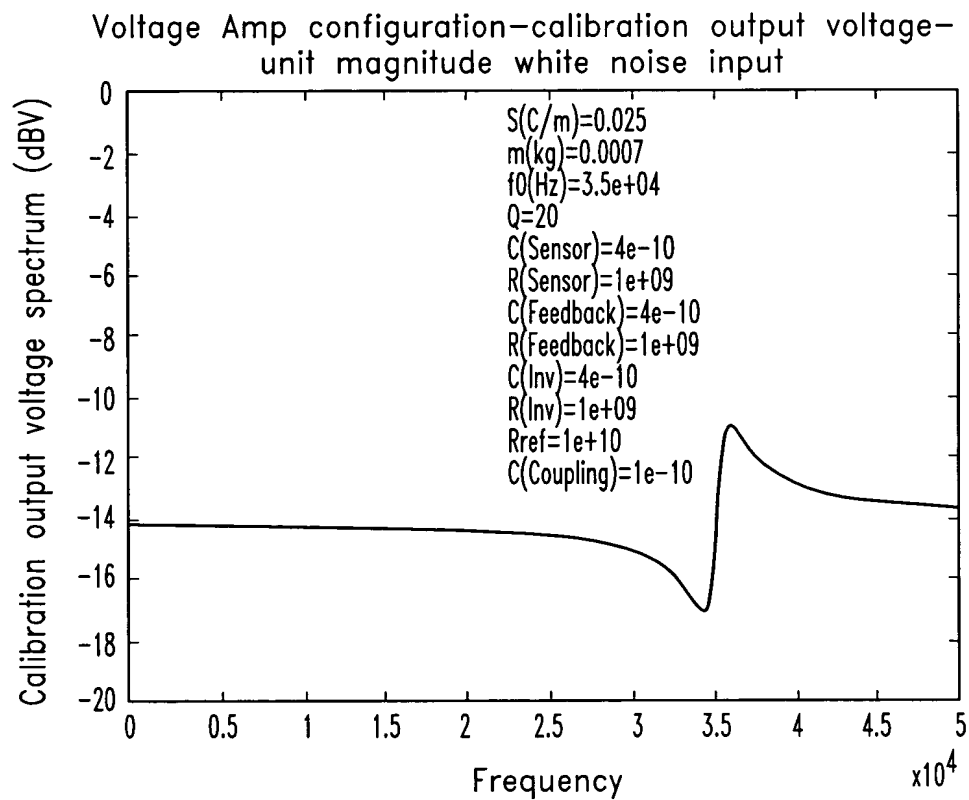


FIG.8

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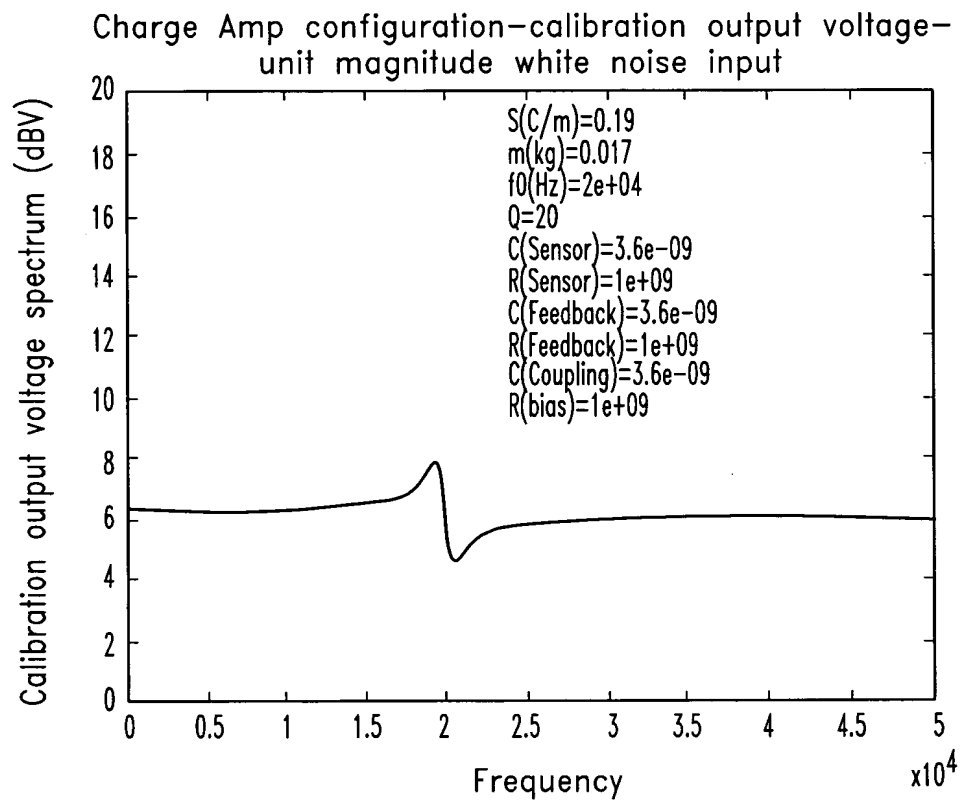


FIG.9

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Charge Amp configuration—calibration output voltage—
unit magnitude white noise input

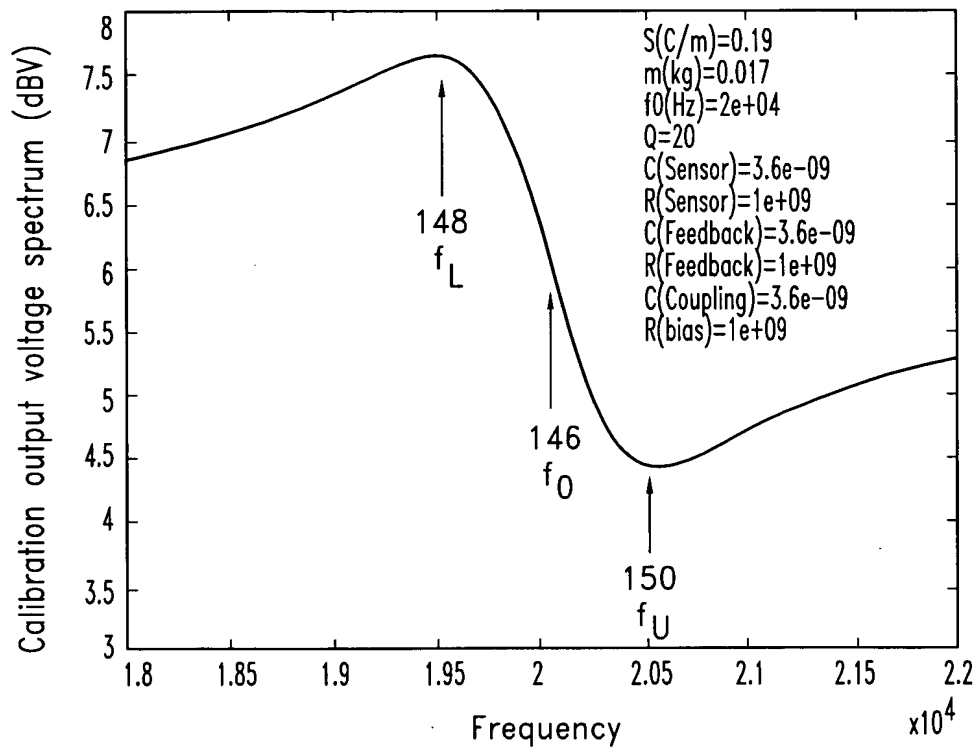


FIG.10

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Charge Amp configuration—calibration output voltage—
unit magnitude white noise input

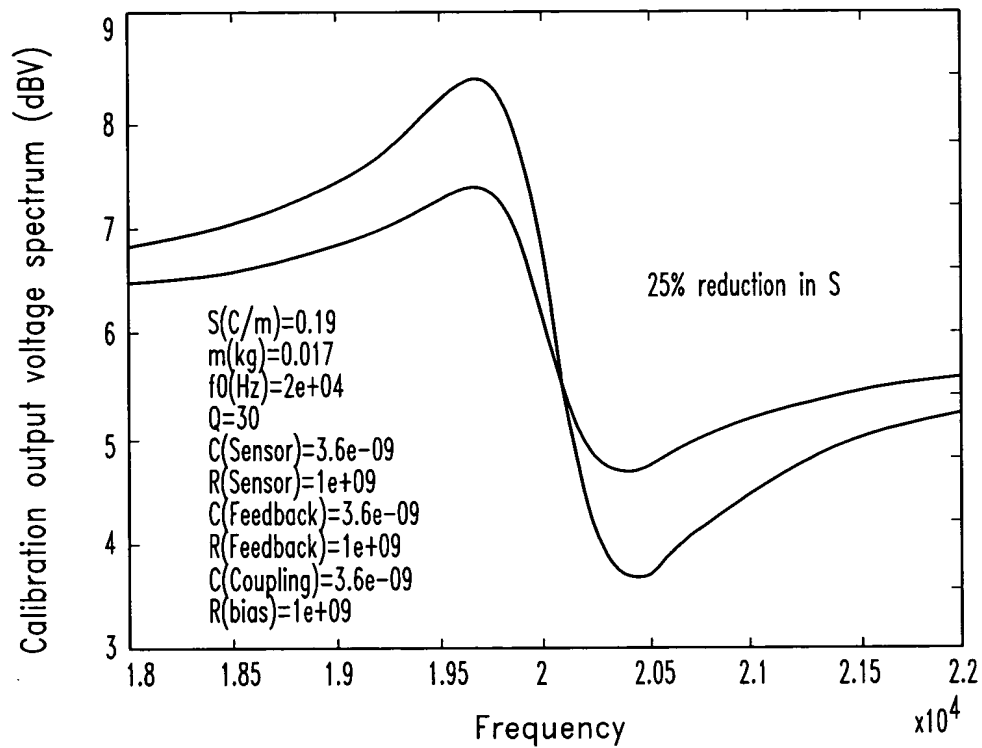


FIG.11

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Charge Amp configuration—calibration output voltage—
unit magnitude white noise input

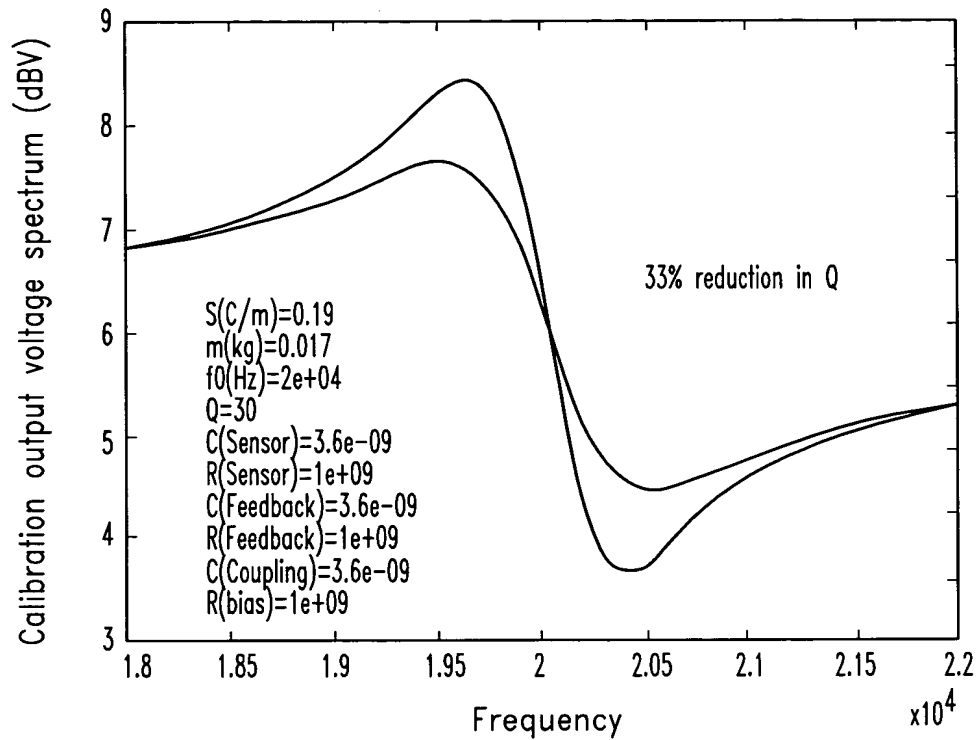


FIG.12

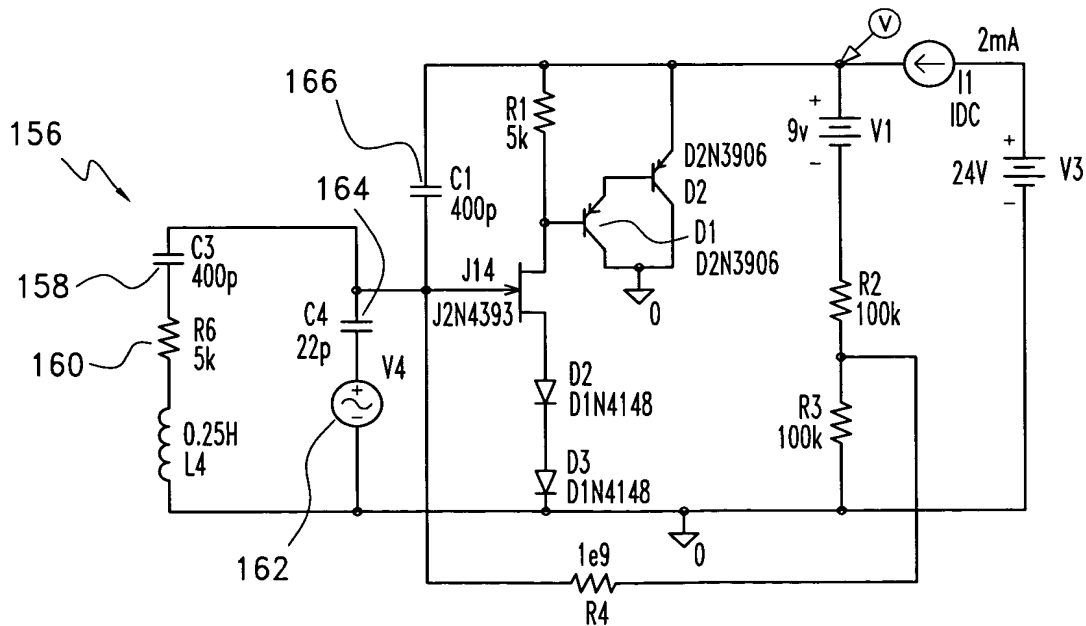


FIG.13

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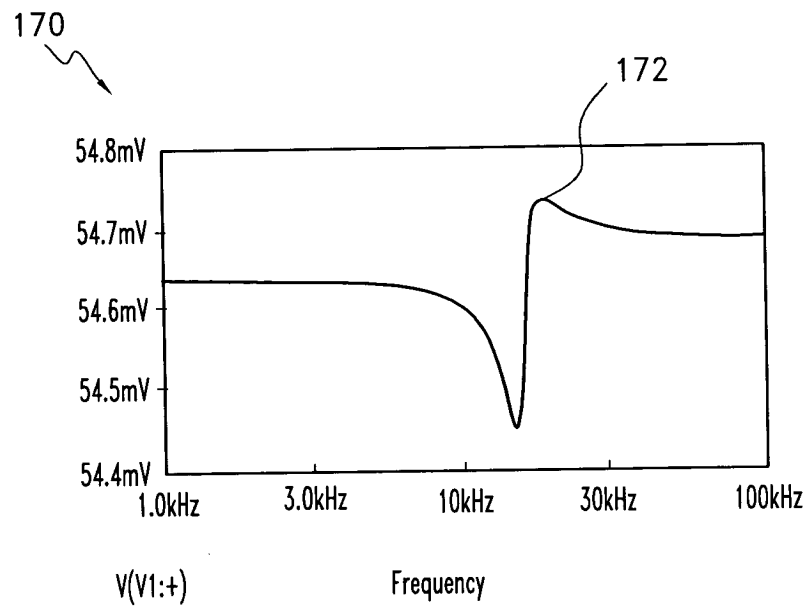


FIG.14

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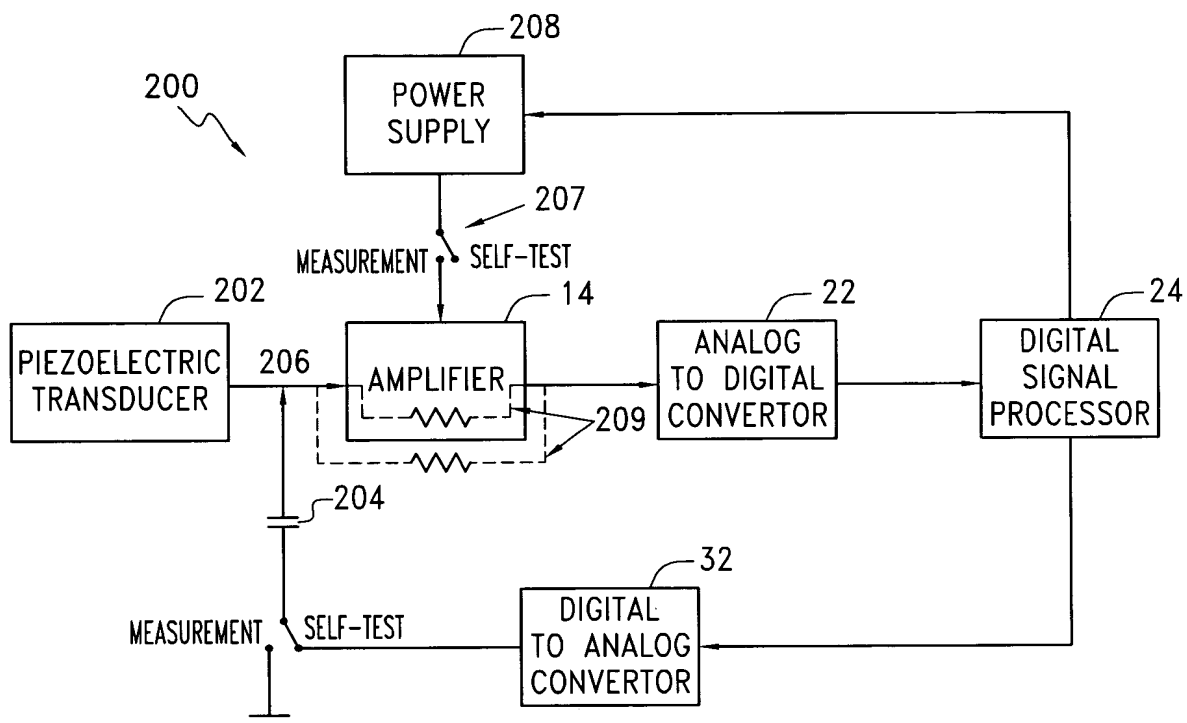


FIG.15

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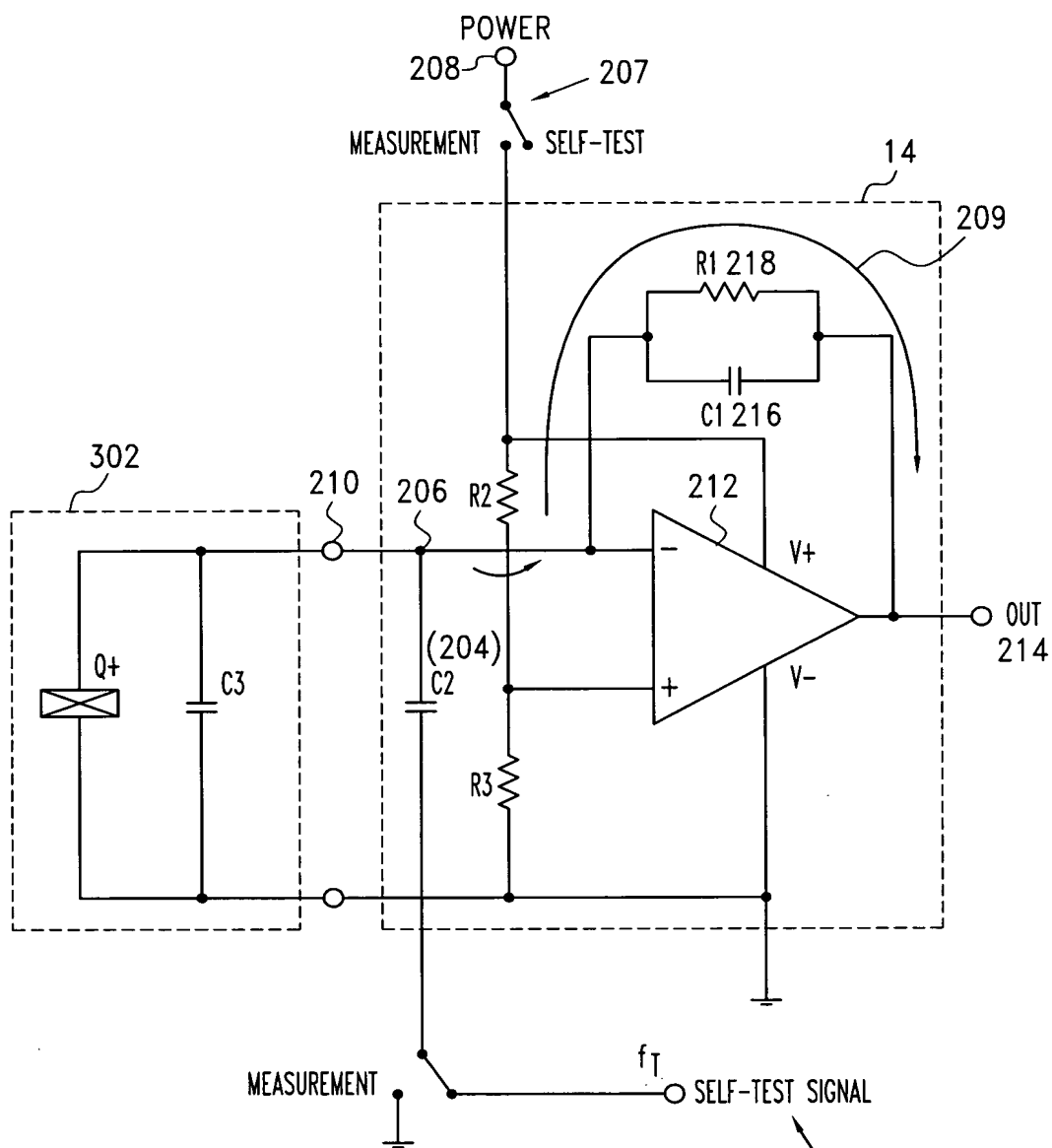


FIG.16

FIG.17

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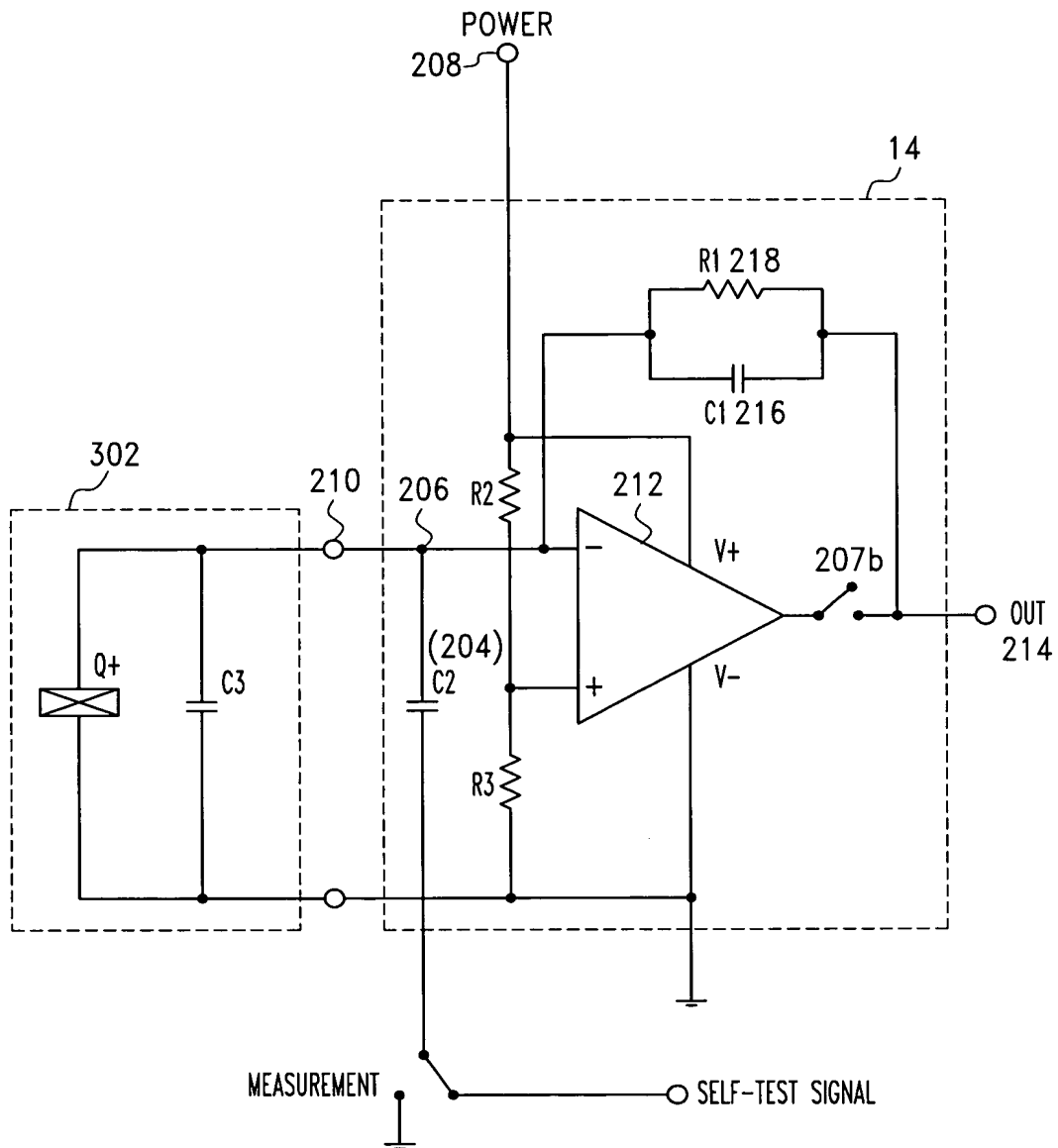


FIG.18

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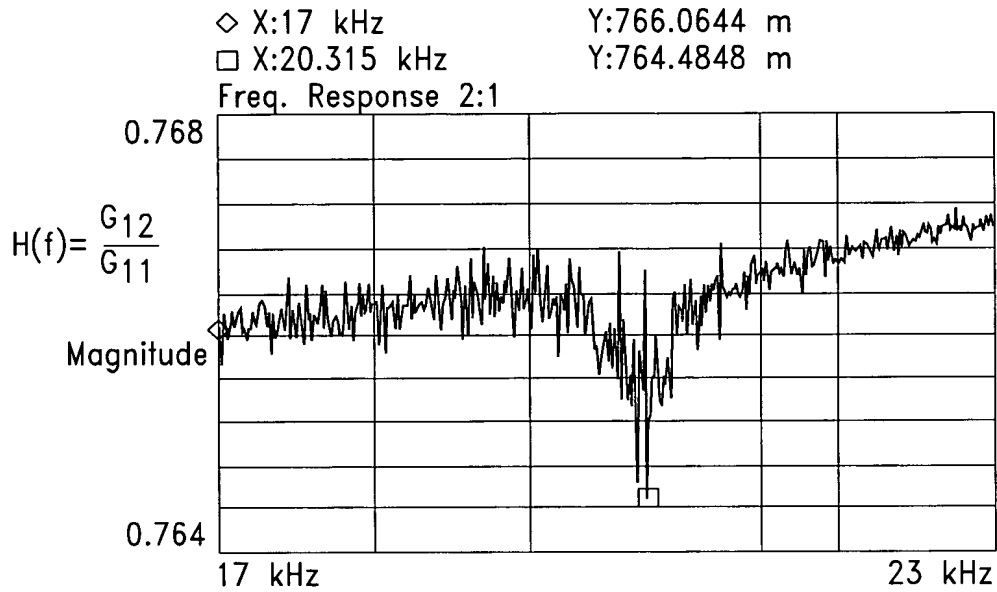


FIG.19A

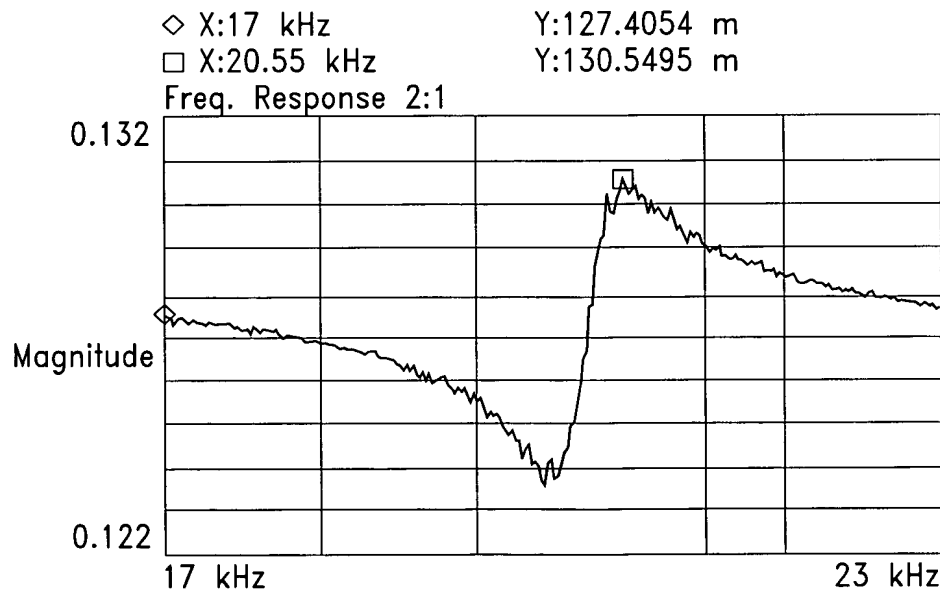


FIG.19B

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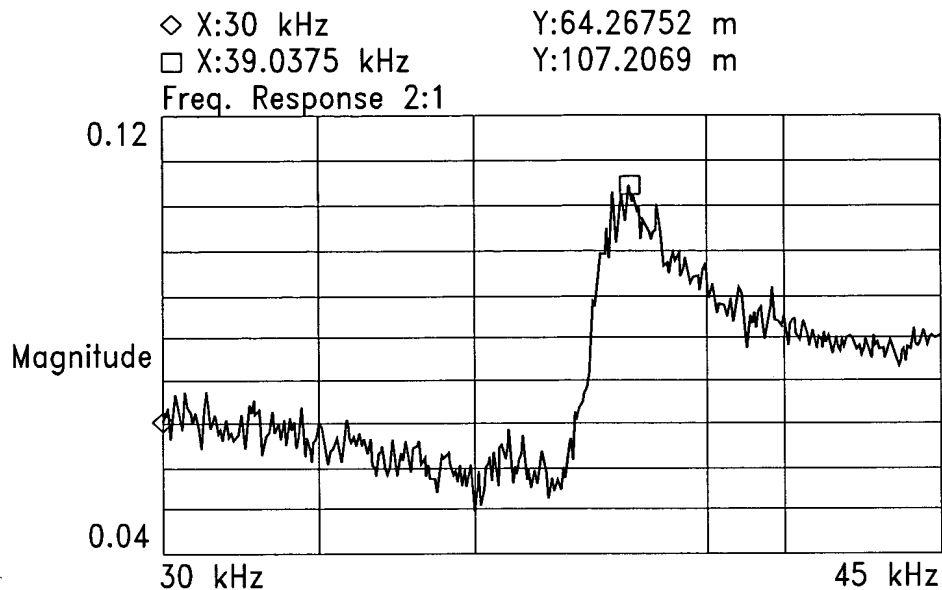


FIG.20A
 .5 volt excitation

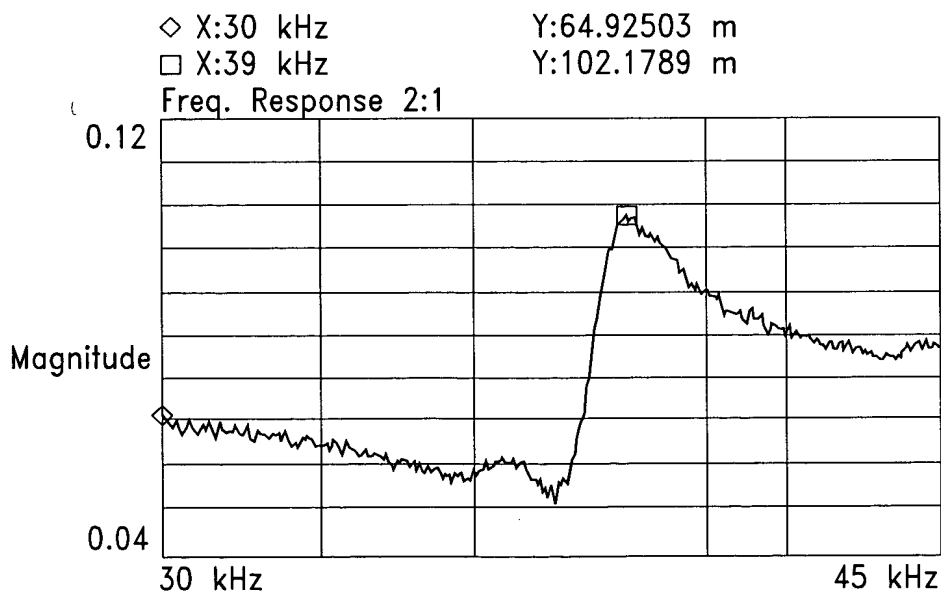


FIG.20B
 5 volt excitation

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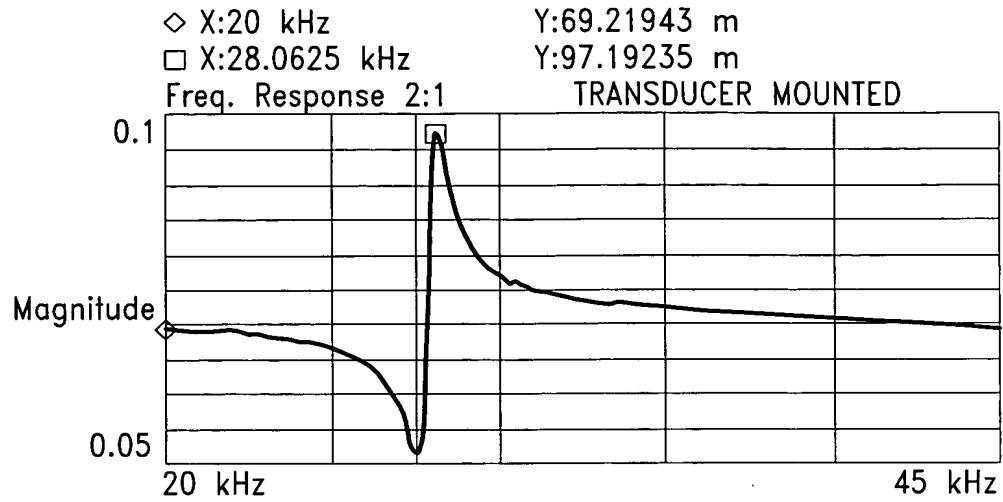


FIG.21A

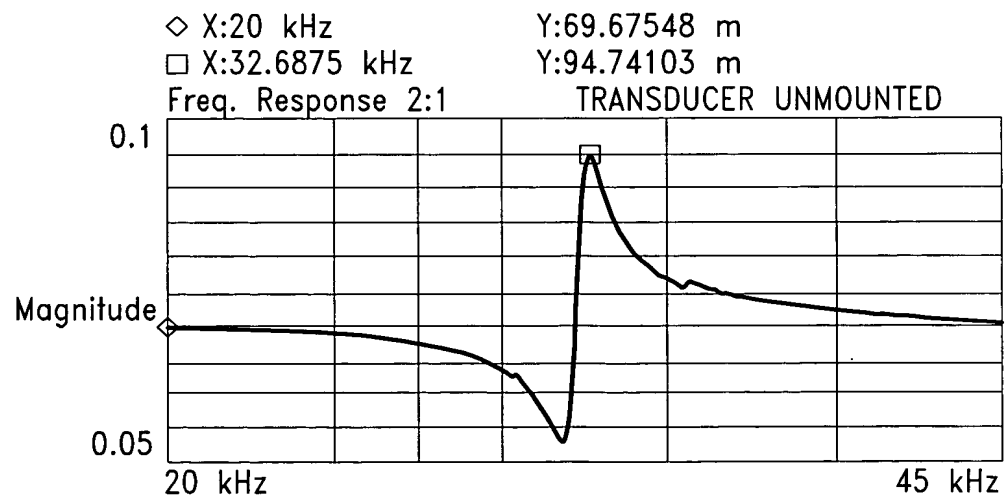


FIG.21B

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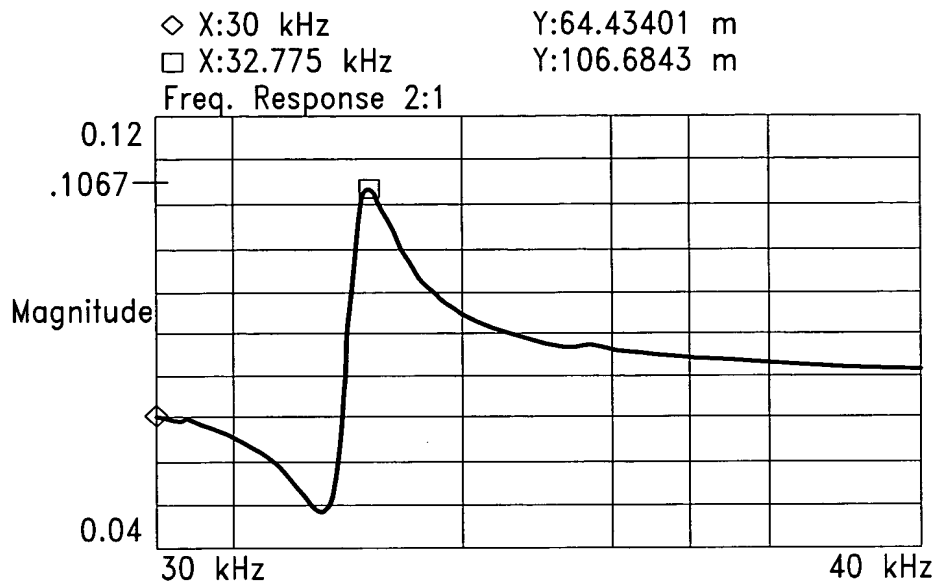


FIG.22A

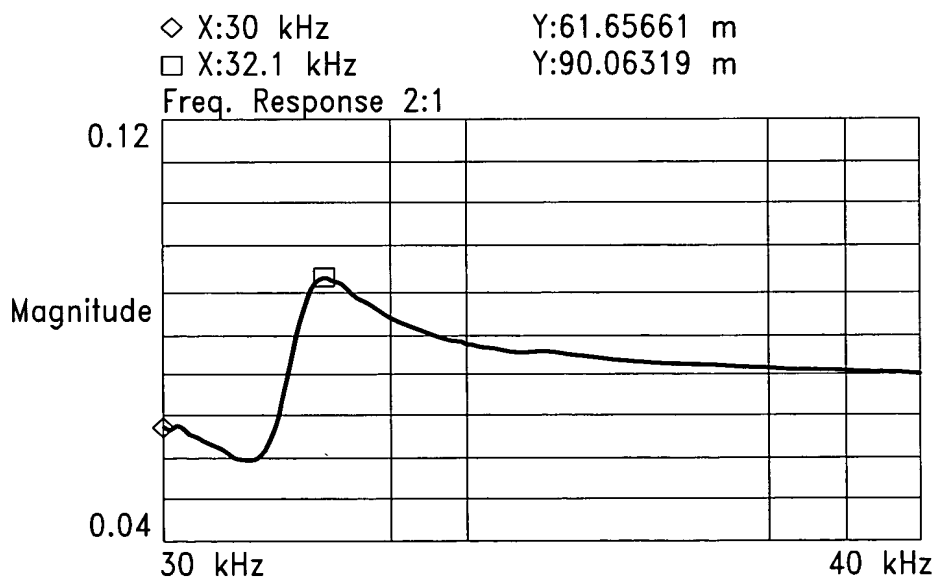


FIG.22B

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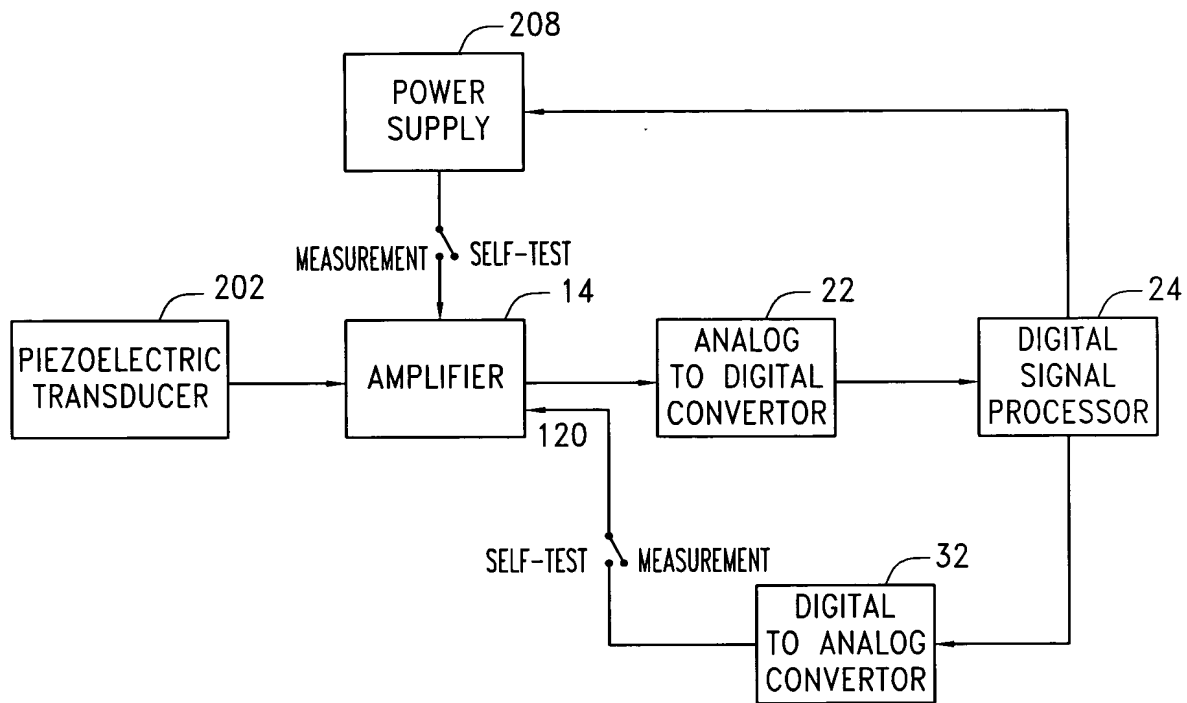


FIG.23

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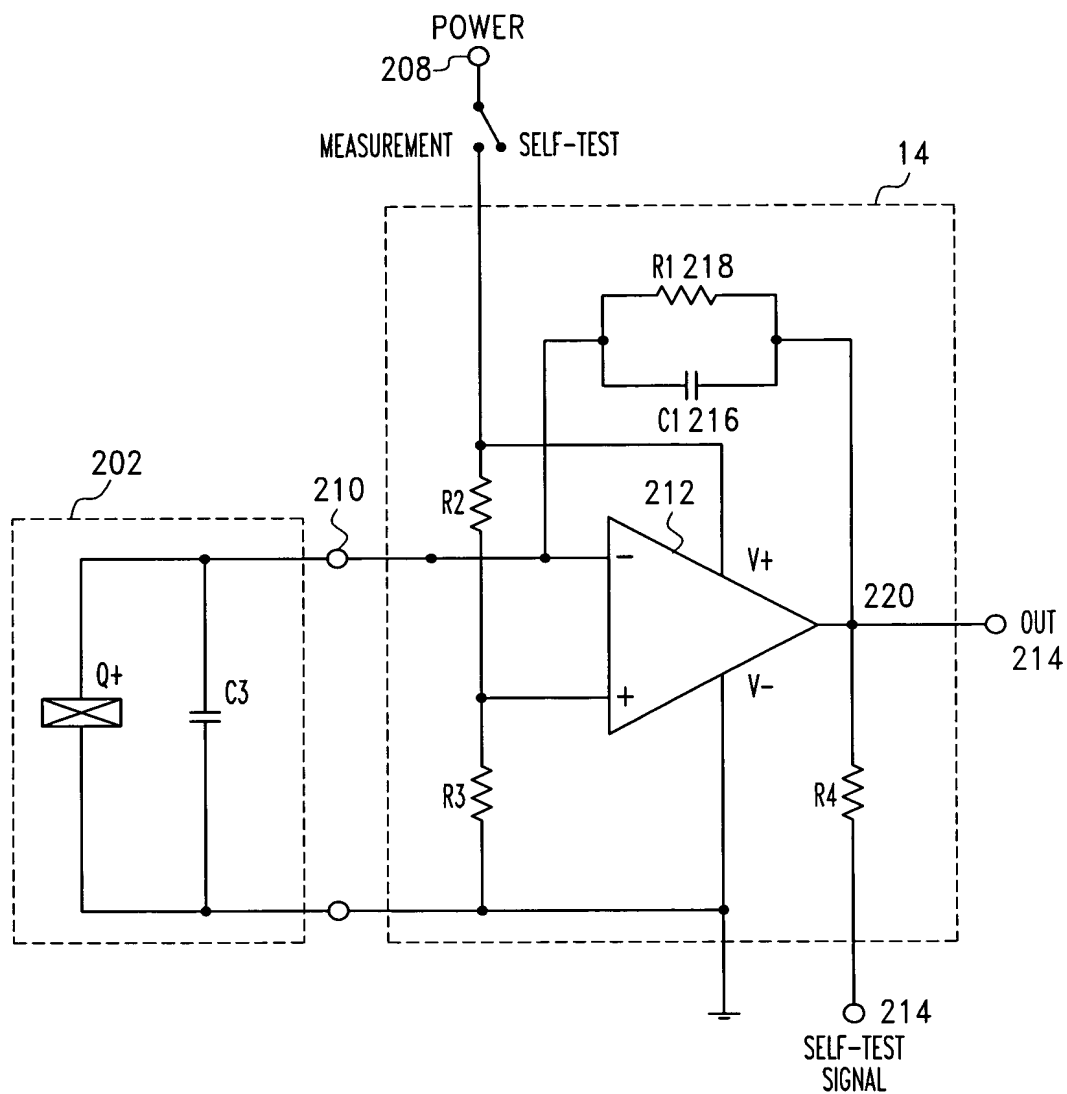


FIG.24

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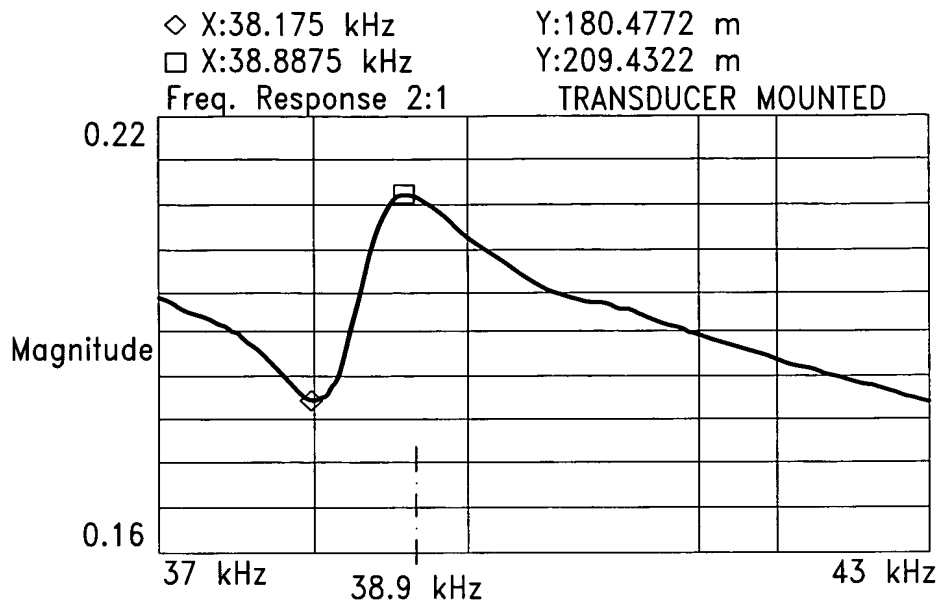


FIG.25A

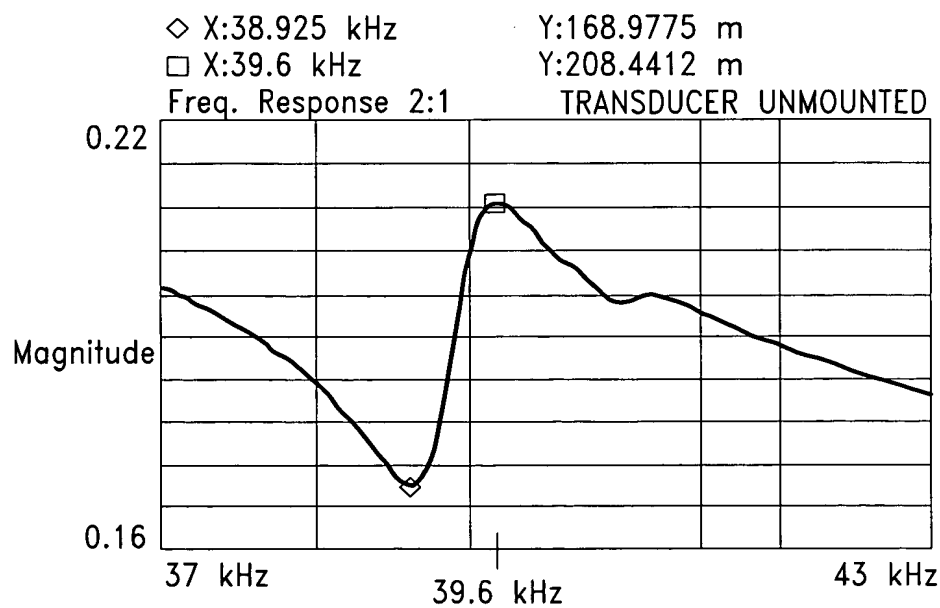


FIG.25B

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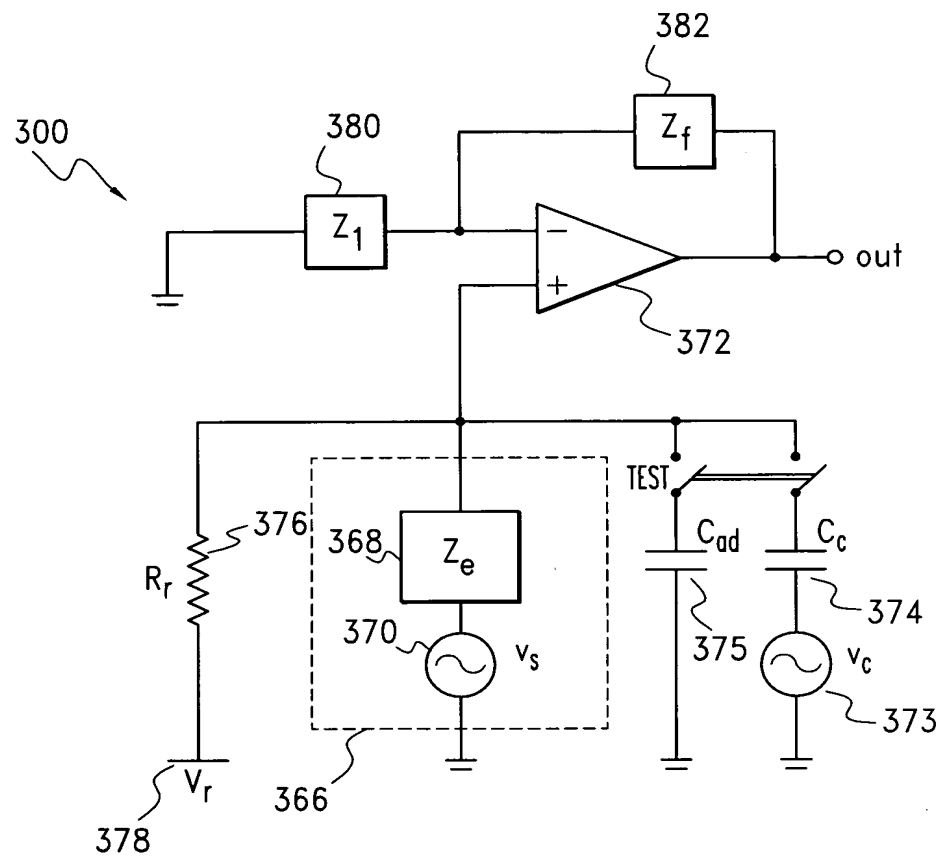


FIG.26

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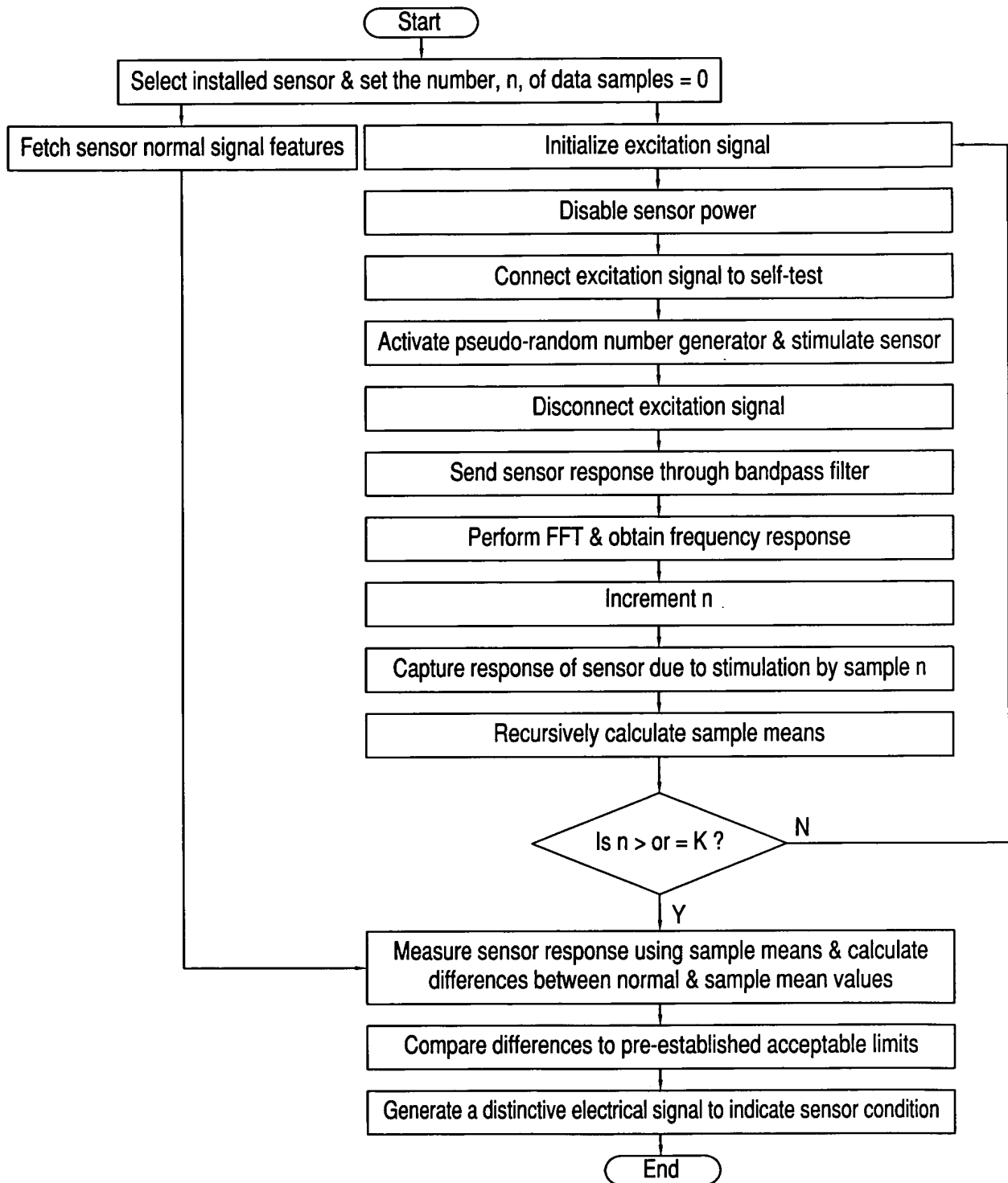


FIG.27

Sensor Self-Test Procedure